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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/743,629	12/22/2003	Ki Min Lee	20063/10008 7409		
34431	7590 03/03/2005		EXAM	INER	
HANLEY, FLIGHT & ZIMMERMAN, LLC 20 N. WACKER DRIVE			NHU, DAVID		
SUITE 4220	ER DRIVE		ART UNIT	PAPER NUMBER	
CHICAGO, I	CHICAGO, IL 60606			2818	
			DATE MAIL ED: 03/03/2009	DATE MAIL ED: 03/03/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Δ	pplication No.	Applicant(s)			
Office Action Summary		10/743,629	LEE, KI MIN			
		xaminer	Art Unit			
	_	Pavid Nhu	2818			
The MAILING DATE of this co Period for Reply	mmunication appea	rs on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PER THE MAILING DATE OF THIS COM - Extensions of time may be available under the pl after SIX (6) MONTHS from the mailing date of - If the period for reply specified above is less that - If NO period for reply is specified above, the max - Failure to reply within the set or extended period Any reply received by the Office later than three earned patent term adjustment. See 37 CFR 1.7	IMUNICATION. ovisions of 37 CFR 1.136(a nis communication. thirty (30) days, a reply wit imum statutory period will a for reply will, by statute, cat months after the mailing day	). In no event, however, may a reply be ti hin the statutory minimum of thirty (30) da upply and will expire SIX (6) MONTHS fror use the application to become ABANDON	mely filed ys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1) Responsive to communication	(s) filed on 22 Nove	ember 2003.				
2a) This action is FINAL.		tion is non-final.				
,						
closed in accordance with the	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-8</u> is/are pending in	the application.					
4a) Of the above claim(s)	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed						
6)⊠ Claim(s) <u>1-8</u> is/are rejected.	Claim(s) <u>1-8</u> is/are rejected.					
7) Claim(s) is/are objected	Claim(s) is/are objected to.					
8) Claim(s) are subject to	Claim(s) are subject to restriction and/or election requirement.					
Application Papers			٠			
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) △ Acknowledgment is made of a  a) △ All b) ☐ Some * c) ☐ Non	e of:		a)-(d) or (f).			
<ul> <li>1. ☑ Certified copies of the priority documents have been received.</li> <li>2. ☐ Certified copies of the priority documents have been received in Application No</li> </ul>						
·						
	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
		Sal	, RPa			
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing R		Paper No(s)/Mail I	Date			
3) Information Disclosure Statement(s) (PTO-Paper No(s)/Mail Date <u>01</u> .	1449 or PTO/SB/08)	6) Other:	Patent Application (PTO-152)			

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#### **DETAILED ACTIONS**

### Specifications

1. Page 3, lines 0014, "Ti/Ti Al, N.TiN" should be — Ti/Ti Al, N/TiN--

#### **Abstract**

2. The abstract of the disclosure is objected to because legal phraseology such as "**comprise**" is used. Correction is required. See MPEP & 608.01(b).

## Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1 "by **means** of a plasma chemical vapor deposition (PCVD)" should be --by a plasma chemical vapor deposition (PCVD)-- Because a claim limitation invokes 35 U.S.C 112 6<sup>th</sup> paragraph by using the phase "means or step". See MPEP & 2181.

Claim 1, "the bottom" lacks a clear antecedent basic.

#### Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Horii'387, Akram'146, Hon'919, Moise'542 are cited as of interest.
- 5. A shortened statutory period for response to this action is set to expired 3 (three) months and 0 (zero) day from the date of this letter. Failure to respond within the period for response will cause the application to become abandoned (see 710.02 (b)).
- 6. Any inquiry concerning this communication on earlier communications from the examiner should be directed to David Nhu, (57)272-1792. The examiner can normally be reached on

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Monday-Friday from 7:30 AM to 5:00 PM. The examiner's supervisor, David Nelms can be reached on (571)272-1787.

The fax phone number for the organization where this application or proceeding is assigned is (703)872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Information regarding the status of an application may be obtained from the patent application information retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David Nhu 64/

September 9, 2004

DaisPa